	1	2	3	4	5	6	7	8
	Prepare for	Repackage				Electro-		_
	Direct	and Prepare to	Melt and	Mechanical	Vitrification	metallurgical	Conventional	Continued
Fuel group	Co-Disposal	Ship	Dilute	Dilution	Technologies	Treatment	Processing	Wet Storage
A. Uranium and Thorium Metal Fuels	_	_	_	_	_	_	_	Yes
B. Materials Test Reactor-like Fuels	_	-	_	_	_	-	_	Yes
C. HEU/LEU Oxides and Silicides Requiring Resizing or Special Packaging	_	-	_	_	_	-	-	Yes
D. Loose Uranium Oxide in Cans	_	_	_	_	_	-	-	Yes
E. Higher Actinide Targets	_	_	_	_	_	_	-	Yes
F. Non-Aluminum-Clad Fuels ^a	_	_	_	_	_	-	_	Yes

a. The environmental impacts of this case were analyzed in the Programmatic SNF EIS (DOE 1995b).

HEU = highly enriched uranium.

LEU = low enriched uranium.

Table 4.1-28. Fuel group and technology combination that compose the Minimum Impact Alternative.

	1	2	3	4	5	6	7	8
	Prepare for	Repackage				Electro-		
	Direct	and Prepare to	Melt and	Mechanical	Vitrification	metallurgical	Conventional	Continued
Fuel group	Co-Disposal	Ship	Dilute	Dilution	Technologies	Treatment	Processing	Wet Storage
A. Uranium and Thorium Metal Fuels	Yes	_	_	_	_	_	_	_
B. Materials Test Reactor-like Fuels	Yes	_	-	_	_	_	_	_
C. HEU/LEU Oxides and Silicides Requiring Resizing or Special Packaging	Yes	-	_	-	-	-	-	-
D. Loose Uranium Oxide in Cans	_	_	Yes	-	_	_	_	_
E. Higher Actinide Targets	-	Yes	_	-	-	_	_	_
F. Non-Aluminum-Clad Fuels ^a	_	Yes	_	-	_	-	_	-

a. The environmental impacts of this case were analyzed in the Programmatic SNF EIS (DOE 1995b).

HEU = highly enriched uranium.

LEU = low enriched uranium.

Table 4.1-29. Fuel group and technology combination that compose the Direct Disposal Alternative.

	1	2	3	4	5	6	7	8
	Prepare for	Repackage				Electro-		
	Direct	and Prepare to	Melt and	Mechanical	Vitrification	metallurgical	Conventional	Continued
Fuel group	Co-Disposal	Ship	Dilute	Dilution	Technologies	Treatment	Processing	Wet Storage
A. Uranium and Thorium Metal Fuels	_	_	_	_	_	_	Yes	_
B. Materials Test Reactor-like Fuels	Yes	_	_	_	_	_	_	_
C. HEU/LEU Oxides and Silicides Requiring Resizing or Special Packaging	Yes	_	_	_	_	_	Yes ^a	_
D. Loose Uranium Oxide in Cans	_	_	Yes	-	_	-	Yes ^b	_
E. Higher Actinide Targets	_	Yes	_	_	_	_	-	-
F. Non-Aluminum-Clad Fuels ^a	_	Yes	_	-	_	_	-	_

a. For failed or sectioned Oak Ridge Reactor fuel, High-Flux Isotope Reactor fuel, and Tower Shielding Reactor fuel, Heavy Water Components Reactor fuel, and Mark-42 targets.

b. For Sterling Forest Oxide fuel.

c. The environmental impacts of this case were analyzed in the Programmatic SNF EIS (DOE 1995b).

HEU = highly enriched uranium.

LEU = low enriched uranium.

Table 4.1-30. Fuel group and technology combination that compose the Preferred Alternative.

	1	2	3	4	5	6	7	8
	Prepare for	Repackage				Electro-		_
	Direct	and Prepare to	Melt and	Mechanical	Vitrification	metallurgical	Conventional	Continued
Fuel group	Co-Disposal	Ship	Dilute	Dilution	Technologies	Treatment	Processing	Wet Storage
A. Uranium and Thorium Metal Fuels	_	-	-	-	_	-	Yes	_
B. Materials Test Reactor-like Fuels	_	_	Yes	_	_	_	_	_
C. HEU/LEU Oxides and Silicides Requiring Resizing or Special Packaging	-	-	Yes	_	-	-	Yes ^a	-
D. Loose Uranium Oxide in Cans	_	_	Yes	-	_	_	Yes^b	_
E. Higher Actinide Targets	-	-	-	-	_	-	-	Yes ^c
F. Non-Aluminum-Clad Fuels ^c	_	Yes	_	_	_	_	_	_

a. For failed or sectioned Oak Ridge Reactor fuel, High-Flux Isotope Reactor fuel, and Tower Shielding Reactor fuel, Heavy Water Components Test Reactor fuel, and Mark-42 targets.

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b. For Sterling Forest Oxide fuel.

c. The environmental impacts of this case were analyzed in the Programmatic SNF EIS (DOE 1995b).

HEU = highly enriched uranium.

LEU = low enriched uranium.

NA = not applicable; not decided in this EIS.

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	1	2	3	4	5	6	7	8
	Prepare for	Repackage				Electro-		
	Direct	and Prepare to	Melt and	Mechanical	Vitrification	metallurgical	Conventional	Continued
Fuel group	Co-Disposal	Ship	Dilute	Dilution	Technologies	Treatment	Processing	Wet Storage
A. Uranium and Thorium Metal Fuels	-	-	-	-	-	-	Yes	-
B. Materials Test Reactor-like Fuels	_	-	-	_	_	_	Yes	_
C. HEU/LEU Oxides and Silicides Requiring Resizing or Special Packaging	_	_	-	_	-	_	Yes	-
D. Loose Uranium Oxide in Cans	_	_	_	-	_	_	Yes	_
E. Higher Actinide Targets	_	Yes	-	-	_	_	Yes ^a	_
F. Non-Aluminum-Clad Fuels ^b	_	Yes	_	_	_	_	-	_

a. The environmental impacts of processing Mark-18 targets was analyzed in the Interim Management of Nuclear Materials Final Environmental Impact Statement (DOE 1995a).

HEU = highly enriched uranium.

LEU = low enriched uranium.

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b. The environmental impacts of this case were analyzed in the Programmatic SNF EIS (DOE 1995b).